BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT VIKAS LAYOUT, MARUTHI NAGAR SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 100.00 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-2 1 Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1 5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2 1(a) / 2 3 5, No 5/Item No 2 3)KPWD S R 2016-17								
		Cum							
	Vikas Layout		1	90 00	0 90	1 00	81 00		
	Maruthi Nagara		1	410 00	0 90	1 05	387.45		
			1	200 00	0 90	1 00	180 00		
			1	88 00	0 90	1 00	79 20		
	Surabhi Layout		1	150 00	0 90	1 05	141 75		
	for Culverts		4	6 00	1 80	1 35	58 32		
	for Kerbs (Maruthi Nagar)		2	713 00	0 25	0 20	71 30		
						Total Qty	999.02	222 38	222159.47
	Basic Rate	189 00							
	Area Weightage @ 6%	11 34			23.75				
	Sub-Total	200 34							
	AD-HOC 11%	22 04							
	Total	**222.38**							
2	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No 133/ Item No 17 1)								
		Cum							
						Qty Vide Item No 1	999.02	111 00	110891.00
	Average Weight of Earth 1 28 Tonne/Km								
	Basic Rate Lead Charges for 10 00 Kms (2 50X1 28X10 00)	32 00							
	Add loading and unloading Item No 17 1)	68 00							
	Sub-Total	100 00							
	AD-HOC 11%	11 00							
	Total	**111.00**							
3	KSRB 4-1 3: Providing and laying in position plain cement concrete of mix 1 4 8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0 85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications Specification No.KBS 4.1, 4.2 (P 12/I 4.3)								
		Cum							
	Vikas Layout		1	90.00	0.90	0.15	12.15		
	Maruthi Nagara		1	410.00	0.90	0.15	55.35		
			1	200.00	0.90	0.15	27.00		
			1	88.00	0.90	0.15	11.88		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Surabhi Layout		1	150.00	0.90	0.15	20.25		
	for Culverts		4	6.00	1.80	0.15	6.48		
	for Kerbs		2	713.00	0.25	0.10	35.65		
					Total Qty		**168.76**	5524.14	**932253.36**
	Basic Rate	4695.00							
	Area Weightage @ 6%	281.70							
	Sub-Total	4976.70							
	AD-HOC 11%	547.44							
		5524.14							
4	KSRB 4-1.7 Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification No. KBS 4.1,4.2 (P No. 13 / Item No.4.7)								
	for culverts	Cum							
	Ramp		8	6.00	0.60	0.10	2.88		
					Total Qty		**2.88**	6214.80	**17898.63**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Sub-Total	5598.92							
	AD-HOC 11%	615.88							
	Total	**6214.80**							
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200. -do- Wall and bottom thickness 15cm (P No.265 / It.No.37.59.2)								
		Cum							
	bed		1	90.00	0.90	0.15	12.15		
			1	410.00	0.90	0.15	55.35		
			1	200.00	0.90	0.15	27.00		
			1	150.00	0.90	0.15	20.25		
			1	88.00	0.90	0.15	11.88		
	side wall		2	90.00	0.15	0.60	16.20		
			2	410.00	0.15	0.60	73.80		
			2	200.00	0.15	0.60	36.00		
			2	150.00	0.15	0.60	27.00		
			2	88.00	0.15	0.60	15.84		
	culverts						295.47		
	bed		4	6.00	1.00	0.15	3.60		
	sidewalls		8	6.00	0.15	0.60	4.32		
							7.92		
					Total Qty		**303.39**	12246.05	**3715329.96**

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Basic Rate	10408.00							
	Area Weightage @ 6%	624.48							
	Sub-Total	11032.48							
	AD-HOC 11%	1213.57							
	Total	**12246.05**							
6	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/lt No 4.46.2 (rates effects from 01-07-2017)								
		tonne							
		50% of Qty Vide item No.5				in Qll	151.695		
		60% of Qty vide item no 5					4.752		
						in tonne	**15.645**	71310.20	**1115626.63**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Sub-Total	64243.42							
	AD-HOC 11%	7066.78							
	Total	**71310.20**							
7	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
			1	90.00	0.75		67.50		
			1	410.00	0.75		307.50		
			1	200.00	0.75		150.00		
			1	150.00	0.75		112.50		
			1	88.00	0.75		66.00		
						Total Qty	**703.50**	2100.00	**1477350.00**
	Data Rate	**2100.00**							
8	Providing and fixing **RCC precast Slabs of 0.20 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	for Culvert		4	6.00	1.80		43.20		
						Total Qty	**43.20**	4402.79	**190200.53**
	Data Rate	**4402.79**							
9	5.29(b)Providing and fixing **pre cast solid cement concrete kerb stones** made out of No.272.21 C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete (P No.25 /lt No.5.30)								
		No							
	Maruthi Nagara		2	713.00		1426.00 0.45	3168.89		
						Say	**3170.00**	368.28	**1167434.00**
	Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Sub-Total	331.78							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	AD-HOC 11%	36.50							
	Total	**368.28**							
12	KSRB 15-19.2 Providing and applying **ready mix priming coat** over concrete/masonry/asbestos cement sheet/plastered surfaces including preparing the surface after throughly cleaning of oil,grease,dirt and other foreign matter and sand papering including cost of materials, labour, complete as per specifications. (Page no.121 / It no.15.80)								
		Sqm							
			2	1050.00		0.40	840.00		
						Total Qty	840.00	30.59	25697.00
	Basic Rate	26.00							
	Area Weightage @ 6%	1.56							
	Sub-Total	27.56							
	AD-HOC 11%	3.03							
	Total	**30.59**							
13	KSRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (Page No.182 & Item No.24.1)								
		Sqm							
						Qty Vide Item No.13	840.00	70.60	59301.00
	Basic Rate	60.00							
	Area Weightage @ 6%	3.60							
	Sub-Total	63.60							
	AD-HOC 11%	7.00							
	Total	**70.60**							
						Sub-Total Amount			9003884.00
14	3% for KRIDL Charges								270117.00
15	1% for Labour Cess								90039.00
16	7% for Applicable GST Charges								630272.00
17	Miscellaneous and unforeseen charges	LS							5688.00
						Grand Total Amount			10000000.00

(Rupees Hudred Lakhs Only)

Administrative Sanction for Rs. 100:00 lacks
is accorded under Head 4059 - 570.40
2017-18 - 840.00 - 19448.53
Registered as CE No ..... Subject
to conditions contained in enclosed memo
No CE/YNK/AA/54/2017-18 16-2-18
Executive Engineer

Technical Sanction
Accorded For
Head of A/C 4059
CER NO: 6247 Dt: 16.2.18
[TA] CE (YNK)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

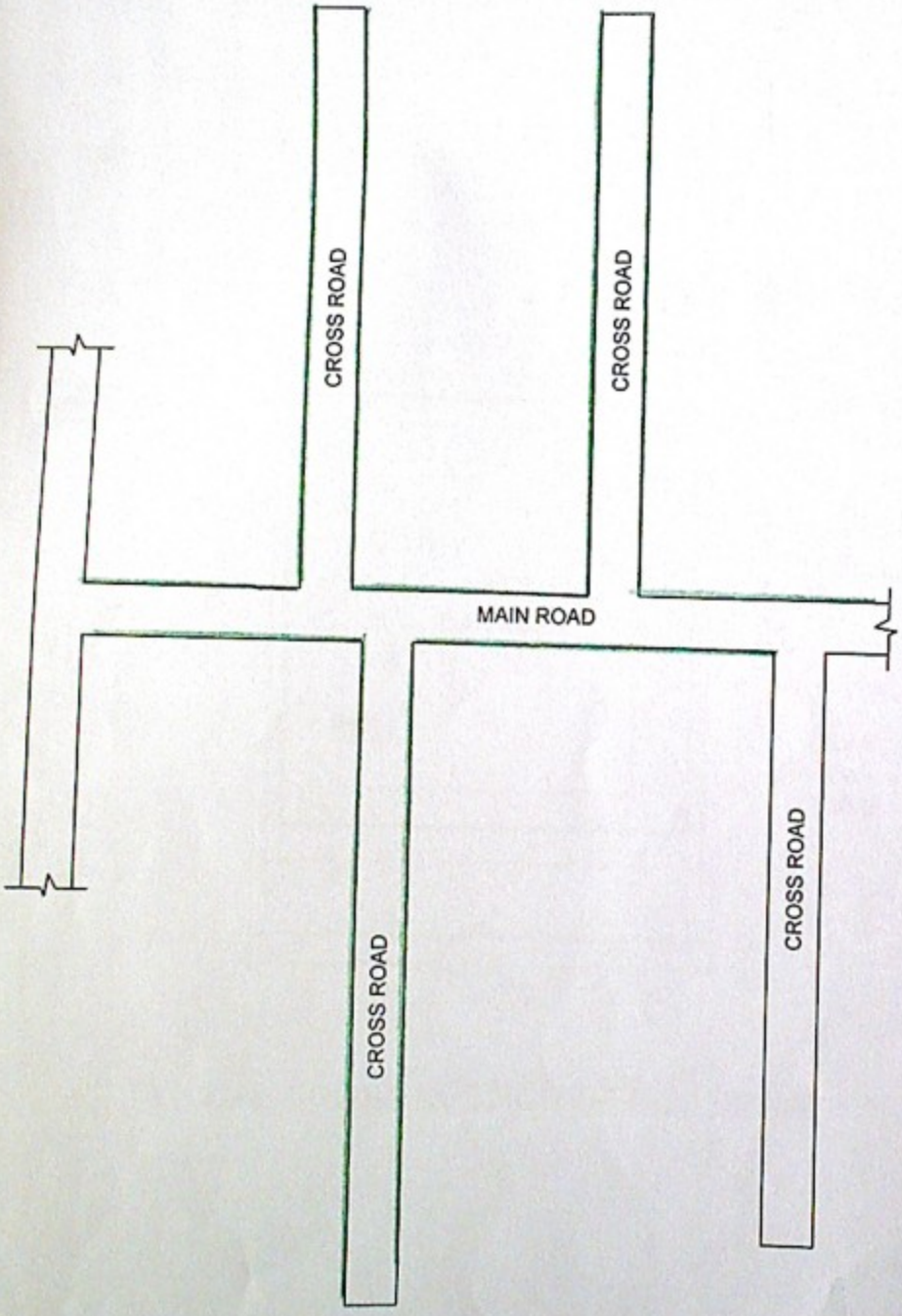
Assistant Engineer
Ward No.01
Kempegowda Ward

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
Yelahanka Zone
Bruhat Bangalore Mahanagara Palike
BANGALORE - 560064

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT VIKAS LAYOUT, MARUTHI NAGAR SURROUNDING AREAS IN WARD NO.01 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE



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- R.C.C DRAIN

Assistant Engineer
Ward No.01
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P